

# USEPA REGION III REMOVAL RESPONSE SECTION PLAN FOR REMEDIATION AND CLOSURE 12<sup>th</sup> STREET LANDFILL SITE CITY OF WILMINGTON

DRAWING NUMBER

2000

2001

2002

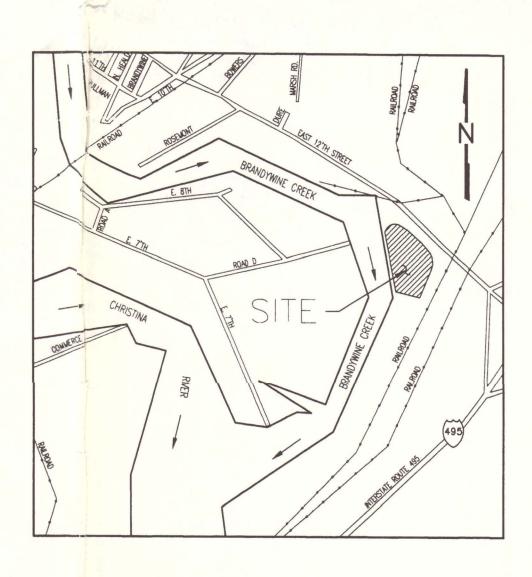
DRAWING TITLE

EXISTING CONDITIONS

NEW CASTLE COUNTY, DELAWARE

PREPARATORY GRADING, EROSION AND SEDIMENTATION CONTROL PLAN

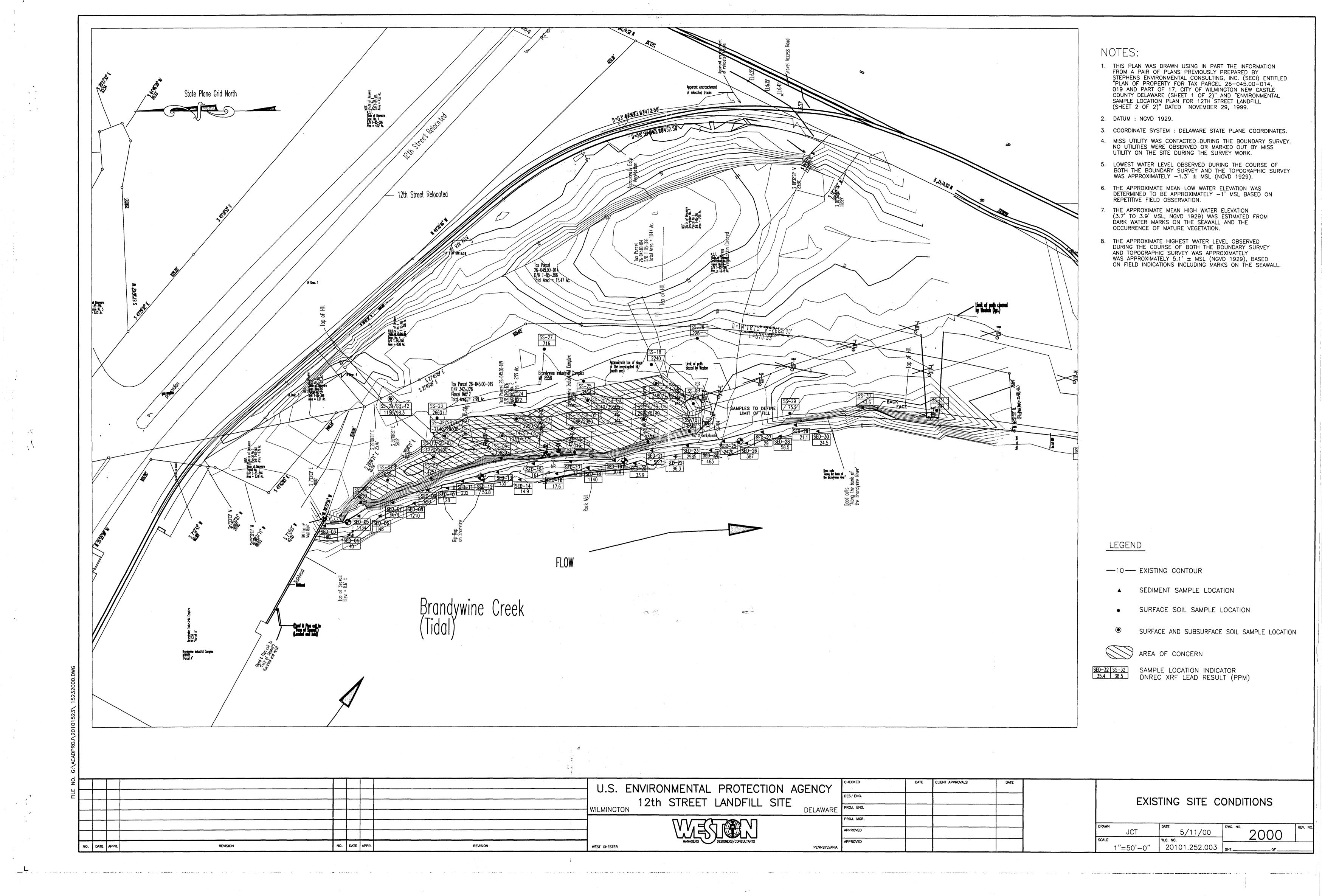
EROSION & SEDIMENTATION CONTROL DETAILS AND NOTES

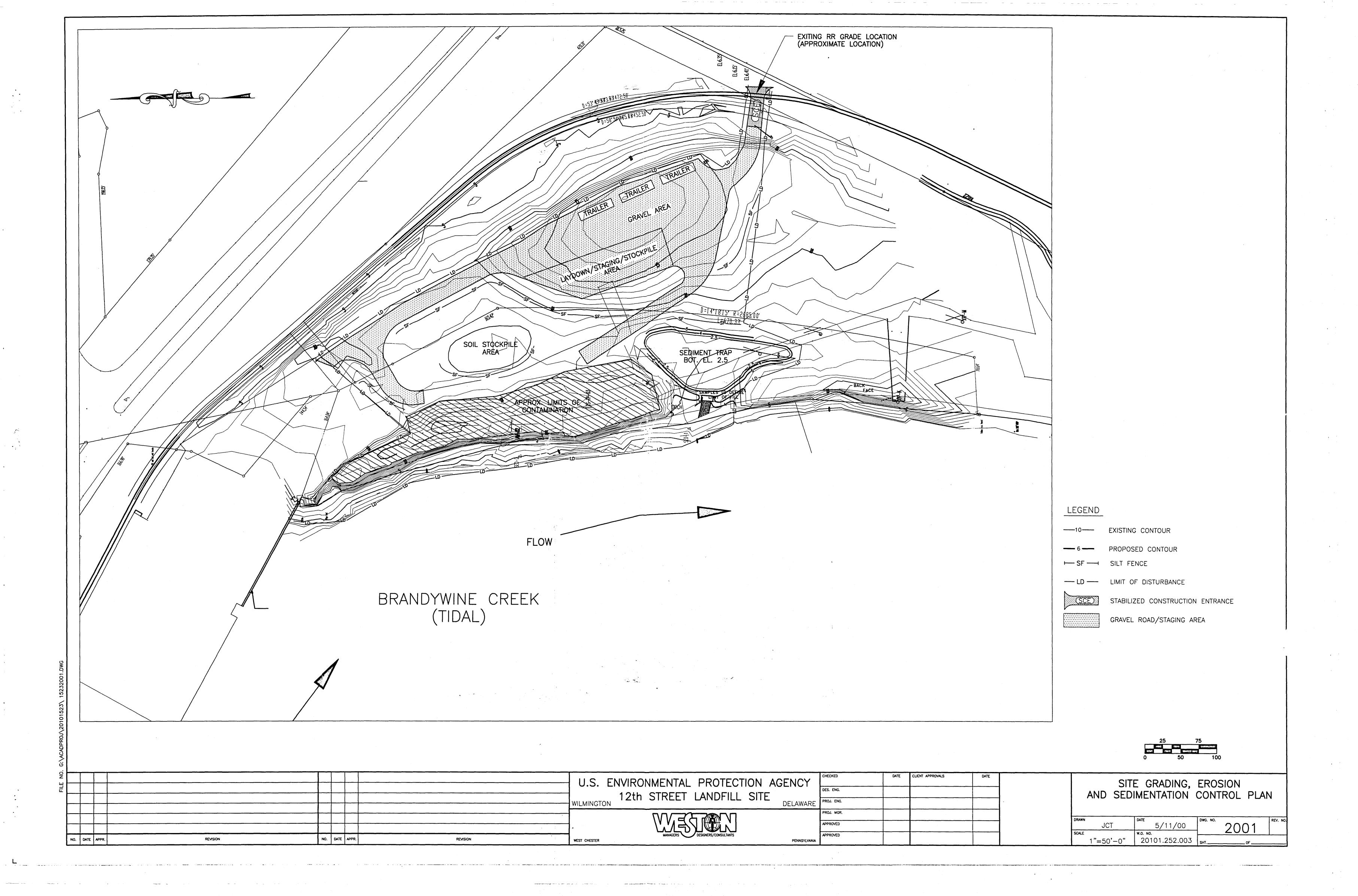


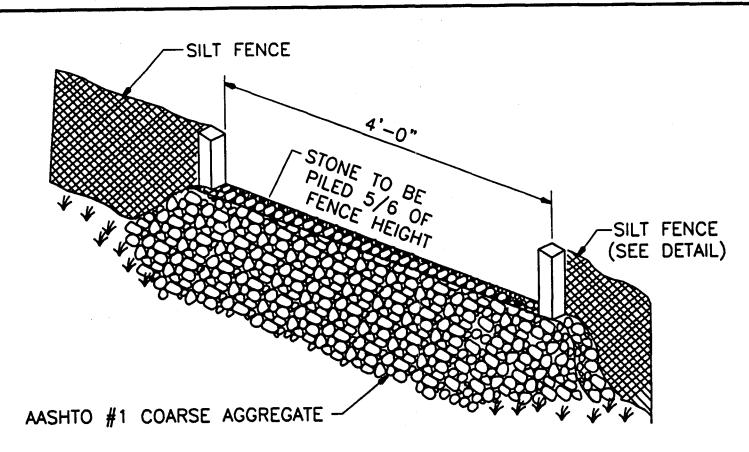
VICINITY MAP

MAY 2000

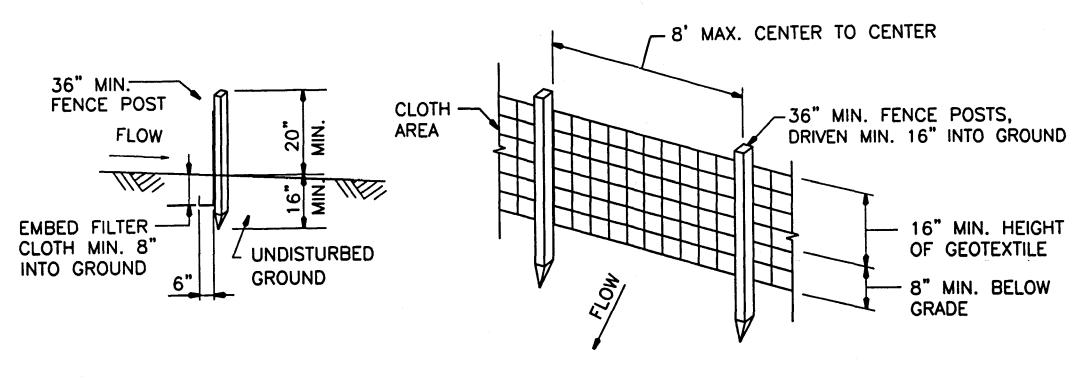








# GRAVEL OUTLET DETAIL



# SECTION

# PERSPECTIVE VIEW

# TYPICAL SILT FENCE N.T.S.

POSTS: STEEL EITHER "T" OR "U" TYPE, OR 2" HARDWOOD FILTER CLOTH: AMOCO 1380 SILT STOP OR APPROVED EQUAL

# CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

- 1. THE TOE ANCHOR WILL BE BACKFILLED AND COMPACTED TO A DENSITY EQUAL TO SURROUNDING SOILS.
- 2. FILTER CLOTH TO BE FASTENED SECURELY TO UPSLOPE SIDE OF FENCE POSTS.
- 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND STAPLED.

50'MIN.

25'MIN.

4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

PAVEMENT OR

STABILIZED

ROADWAY

# CONSTRUCTION SPECIFICATIONS—STABILIZED CONSTRUCTION ENTRANCE

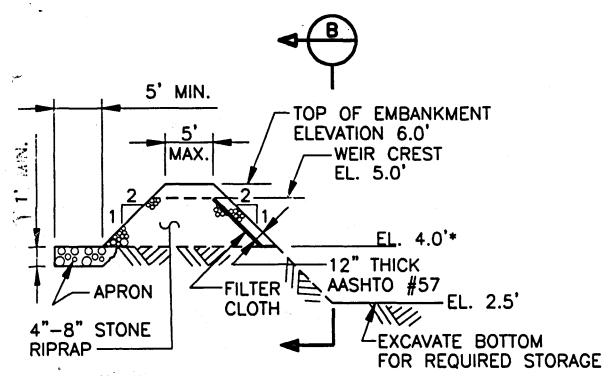
- 1. STONE SIZE DELDOT NO.2 COARSE AGGREGATE.
- 2. LENGTH AS REQUIRED, BUT NOT LESS THAN 50 FT.
- 3. THICKNESS NOT LESS THAN EIGHT (8) INCHES.
- 4. WIDTH TWENTY-FIVE(25) FT. MIN., BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- 5. FILTER CLOTH WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- 6. SURFACE WATER ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCE SHALL BE PIPED ACROSS THE ENTRANCE.
- 7. MAINTENANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO EXISTING PAVEMENT AREAS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO EXISTING PAVEMENTS MUST BE REMOVED IMMEDIATELY.
- 8. WASHING WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE.
- 9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

# STABILIZED CONSTRUCTION ENTRANCE

(REFER TO DWG. 2001 FOR LOCATION)

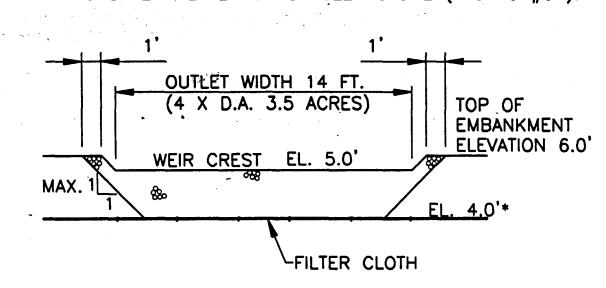
# GENERAL EROSION AND SEDIMENTATION CONTROL NOTES

- 1. DNREC, SEDIMENT AND STORMWATER MANAGEMENT PROGRAM SECTION MUST BE NOTIFIED IN WRITING FIVE (5) DAYS PRIOR TO COMMENCING CONSTRUCTION. FAILURE TO DO SO CONSTITUTES A VIOLATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLAN.
- 2. REVIEW AND OR APPROVAL OF THE SEDIMENT AND STORMWATER MANAGEMENT PLAN SHALL NOT RELIEVE THE CONTRACTOR FROM HIS OR HER RESPONSIBILITIES FOR COMPLIANCE WITH THE REQUIREMENTS OF THE SEDIMENT AND STORMWATER REGULATIONS, NOR SHALL IT RELIEVE THE CONTRACTOR FROM ERRORS OR OMISSIONS IN THE APPROVED PLAN.
- 3. IF THE APPROVED PLAN NEEDS TO BE MODIFIED, ADDITIONAL SEDIMENT AND STORMWATER CONTROL MEASURES MAY BE REQUIRED AS DEEMED NECESSARY BY THE DNREC.
- 4. FOLLOWING SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 14 CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER SEDIMENT CONTROLS. TOPSOIL STOCKPILES, AND ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- 5. CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE AND REPAIR OF ALL EROSION AND SEDIMENTATION CONTROL MEASURES DURING ALL PHASES OF CONSTRUCTION.
- 6. CONTRACTOR IS RESPONSIBLE FOR THE CONTROL OF DUST IN AND AROUND THE CONSTRUCTION AREA. DUST CONTROL MEASURES SHALL COMPLY WITH METHODS AS SPECIFIED IN DNREC'S DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
- 7. PLACE EROSION CONTROL MEASURES PRIOR TO INITIATING EARTH DISTURBANCE ACTIVITIES.
- 8. FOR FOREIGN BORROW MATERIAL OBTAINED FROM OFFSITE SOURCES. BORROW AREAS SHALL HAVE PROPER EROSION AND SEDIMENT CONTROL MEASURES AND PERMITS IN PLACE, IF REQUIRED. PRIOR TO START OF EARTH DISTURBANCE IN THESE AREAS.
- 9. SOIL SHALL BE STOCKPILED IN AN AREA DESIGNATED BY THE EPA OR ENGINEER. STOCKPILES SHALL NOT EXCEED 20 FEET IN HEIGHT WITH 2H:1V MAXIMUM SIDESLOPES. STOCKPILE SHALL BE SURROUNDED BY SILT FENCE (D)WNGRADIENT SIDE).
- 10. CONTRACTOR SHALL DISTURB ONLY THOSE AREAS DESIGNATED ON THE DRAWINGS WITHIN THE LIMIT OF DISTURBANCE.
- 11. ALL NON-GRAVEL DISTURBED ARIAS SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADES.



SECTION THROUGH SED. TRAP OUTLET \* APPROX. EXIST. GRADE AT SED. TRAP OUTLET 2001 2002 NO SCALE

<u>NOTE:</u> THE OUTLET EMBANKMENT IS TO BE COMPOSED ENTIRELY OF ROCK. THE MAIN BODY SHOULD BE LARGER STONE (4" TO 8" RIPRAP) WITH AN UPSTREAM LAYER OF SMALLER STONE (AASHTO #57).





# STONE OUTLET SEDIMENT TRAP

## **VEGETATIVE STABILIZATION SPECIFICATIONS:**

### SITE PREPARATION

PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 14 CALENDAR DAYS AS TO THE SURFACE OF ALL SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, BERMS, DIKES, GRASSED WATERWAYS, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) ON THE PROJECT SITE.

### SEEDBED PREPARATION AND SEEDING APPLICATION

THE TOP LAYER OF SOIL SHALL BE LOOSENED, LIMED AND FERTILIZED BY RAKING, DISCING OR HARROWING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. FLAT AREAS AND SLOPES UP TO 3 TO 1 GRADE (HORIZONTAL TO VERTICAL) SHALL BE LOOSE AND FRIABLE TO A DEPTH OF AT LEAST 4 INCHES. SLOPES STEEPER THAN 3 TO 1 SHALL HAVE THE TOP 1-3 INCHES OF SOIL LOOSE AND FRIABLE BEFORE SEEDING.

### III. SOIL AMENDMENTS

LIME AND FERTILIZE ACCORDING TO SOIL TESTS. TEMPORARY SEEDING DOES NOT REQUIRE LIME. IN LIEW OF SOIL TESTS, APPLY THE FOLLOWING: DOLOMITIC LIMESTONE: 2 TONS PER ACRE OR 92 LBS./1000 SQ. FT.

FERTILIZER: 10-10-10 OR EQUIVALENT AT 1000 LBS./ACRE (PERMANENT SEEDING)

### IV. TEMPORARY SEEDING:

ITALIAN OR PERENNIAL RYE GRASS AT 80 LBS./ACRE OR 1 LB./1000 SQ. FT.

2/1 TO 10/31.

PERMANENT SEEDING MIXTURE:

- KENTUCKY 31' TALL FESCUE AT 40 lbs/ACRE AND INTERSTATE SERICEA LESPEDEZA AT 20 lbs/ACRE.

-PERMANENT 2/1 TO 4/30 AND 8/15 TO 10/31.

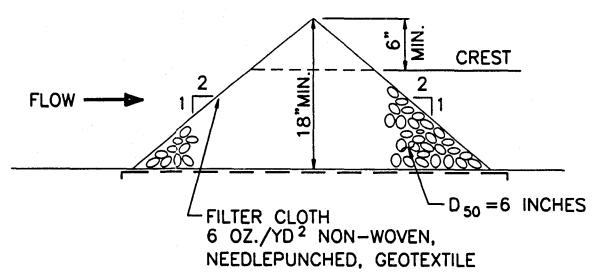
### V. MULCHING

ALL SEEDINGS REQUIRE MULCHING. USE "MULCH ONLY" WHEN SEASON PROHIBITS SEEDING.

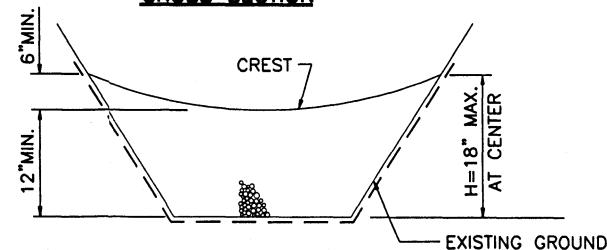
MULCH SHALL BE UNROTTED, UNCHOPPED SMALL GRAIN STRAW APPLIED AT A RATE OF 2.5 TO 3 TONS/ACRE OR 115-140 LBS./1000 SQ. FT. (2 BALES). MULCH MATERIALS SHALL BE RELATIVELY FREE OF ALL KINDS OF WEEDBEDS AND SHALL BE FREE OF PROHIBITED NOXIOUS WEEDS. SPREAD MULCH UNIFORMLY MECHANICALLY OR BY HAND. MULCH ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER MULCH PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY MULCH NETTINGS, MULCH ANCHORING TOOL, PEG AND TWINE OR LIQUID MULCH BINDERS.

## VI. MAINTENANCE

- IRRIGATION WHEN SOIL MOISTURE BECOMES DEFICIENT, IRRIGATE TO PREVENT LOSS OF STAND OF PROTECTIVE
- REPAIRS IF STAND IS INADEQUATE FOR EROSION CONTROL, OVER SEED AND FERTILIZE USING HALF OF THE RATES ORIGINALLY APPLIED. IF STAND IS OVER 30% DAMAGED, REESTABLISH FOLLOWING ORIGINAL RATES AND PROCEDURES.



# CROSS SECTION



NOTE: EXTEND ROCK DAN FOR FULL WIDTH OF SWALE OR CHANNEL

FRONT VIEW **ROCK** CHECK DAM DETAIL

U.S. ENVIRONMENTAL PROTECTION AGENCY **EROSION & SEDIMENTATION** CONTROL DETAILS AND NOTES 12th STREET LANDFILL SITE DELAWARE PROJ. ENG. 5/11/00 2002 NO. DATE APPR. 20101.252.003 NO. DATE APPR. REVISION AS NOTED WEST CHESTER PENNSYLVANIA

PLAN VIEW EXISTING GROUND 50'MIN. -8 OZ/SY NON-WOVEN
NEEDLE PUNCHED GEOTEXTILE **PROFILE**